



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

VICTOR TAN CHER 'KHNG  
LEE KIAN CHAI

Serial No. 10/023,049

ART UNIT: 2822

Filing Date: 12/20/2001

EXAMINER: GRAYBILL, DAVID E.

FOR: SEMICONDUCTOR PACKAGE HAVING  
SUBSTRATE WITH MULTI-LAYER METAL BUMPS

Docket No. 00-1117

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT BEFORE MAILING DATE OF  
EITHER FINAL ACTION OR NOTICE OF ALLOWANCE UNDER 37 C.F.R. §1.97(c)**

**February 28, 2006**

**Mail Stop Amendment**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

1. The information disclosure statement transmitted herewith is being filed after three months of the filing date of this national application or the date of entry of the national stage as set forth in §1.491 in an international application or after the mailing date of the first Office Action on the merits, whichever event occurred last but before the mailing date of either:

- a. a Final Action under §1.113 or
- b. a Notice of Allowance under §1.311, whichever occurs first.

**CERTIFICATE OR FEE**

2. Accompanying this transmittal is

☐ a certification as specified in 37 CFR 1.97(e).

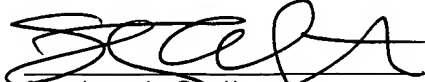
☒ the fee set forth in 37 CFR 1.17(p) for submission of an information disclosure statement under §1.97(c). (\$180.00).

☒ The commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 07-1857, pertaining to i) any filing fees under 37 CFR 1.16 for the

presentation of extra claims; ii) any patent application processing fees under 37 CFR 1.17.

DATED this 28th day of February, 2006.

Respectfully submitted:



Stephen A. Gratton  
Registration No. 28,418  
Attorney of Record

2764 South Braun Way  
Lakewood, CO 80228  
Telephone: (303) 989 6353  
Fax: (303) 989 6538

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: MAIL STOP AMENDMENT, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on this 28th day of February, 2006.

February 28, 2006  
Date of Signature



Stephen A. Gratton, Attorney of Record

MAR 03 2006

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Substitute for Form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet

1

of

1

**Complete if Known**

Application Number	10/023,049
Filing Date	12-20-2001
First Named Inventor	VICTOR TAN CHER 'KHNG
Art Unit	2822
Examiner Name	GRAYBILL, DAVID E.
Attorney Docket Number	00-1117

## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

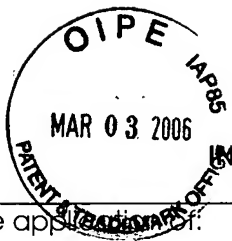
**Examiner  
Signature**

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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In re application of:

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Serial No. 10/023,049

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EXAMINER: GRAYBILL, DAVID E.

FOR: SEMICONDUCTOR PACKAGE HAVING  
SUBSTRATE WITH MULTI-LAYER METAL BUMPS

Docket No. 00-1117

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56**  
**February 28, 2006**

Mail Stop AMENDMENT  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

The citations listed on the accompanying Form PTO/SB/08, may be material to the examination of the subject application and are therefore submitted in compliance with the duty of disclosure defined in 37 CFR §§1.56, 1.97 and 1.98.

This Information Disclosure Statement under 37 CFR §§1.56, 1.97 and 1.98 is not to be construed as a representation that a search has been made, that additional material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art under 35 USC §102.

It is requested that the above citations be made of record, if appropriate, in the prosecution of this application.

DATED this 28th day of February, 2006.

Respectfully submitted:

Stephen A. Gratton, Registration No. 28,418  
Attorney of Record

03/06/2006 HGUTEMAI 00000036 10023049

01 FC:1806

180.00 DP

2764 South Braun Way  
Lakewood, CO 80228  
Telephone: 303 989 6353



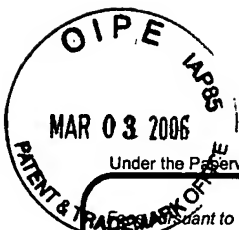
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February 28, 2006

Date of Signature

  
\_\_\_\_\_  
Stephen A. Grafton, Attorney of Record



PTO/SB/17 (01-06)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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In accordance with the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL

## For FY 2006

☐ Applicant claims small entity status. See 37 CFR 1.27TOTAL AMOUNT OF PAYMENT (\$)**180.00****Complete if Known**

Application Number	10/023,049
Filing Date	12-20-2001
First Named Inventor	VICTOR TAN CHER 'KHNG
Examiner Name	GRAYBILL, DAVID E.
Art Unit	2822
Attorney Docket No.	00-1117

**METHOD OF PAYMENT (check all that apply)**☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):☒ Deposit Account Deposit Account Number: **07-1857** Deposit Account Name: **Stephen A. Gratton**

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES****Fee Description**

Each claim over 20 (including Reissues)

Fee (\$)

Small Entity Fee (\$)

Each independent claim over 3 (including Reissues)

50

25

Multiple dependent claims

200

100

360

180

**Total Claims** **Extra Claims** **Fee (\$)** **Fee Paid (\$)**- 20 or HP =            x            =           

HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims** **Extra Claims** **Fee (\$)** **Fee Paid (\$)**- 3 or HP =            x            =           

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

**Total Sheets** **Extra Sheets** **Number of each additional 50 or fraction thereof** **Fee (\$)** **Fee Paid (\$)**- 100 =            / 50 =            (round up to a whole number) x            =           **4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

**Fees Paid (\$)**Other (e.g., late filing surcharge): **IDS****180****SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	28,418	Telephone	303 989 6353
Name (Print/Type)	Stephen A. Gratton	Date	02-28-2006		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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